



SCMS SCHOOL OF ENGINEERING & TECHNOLOGY, KARUKUTTY

Institutional Distinctiveness

2020-21

SCMS Water Institute (SWI) was established in 2010 as part of a Memorandum of Understanding between University of Applied Sciences Ravensburg-Weingarten, Germany and SCMS Group of Educational Institutions to address the water related environmental problems affecting the society. The institute initially known as Centre for Sustainable Water Technology and Management (CSWTM) was renamed in 2015. In 2013, SWI was funded by Baden Wuttemberg Stiftung Germany for establishing an Indo-German centre of competence for water and waste water under the leadership of University of Applied Sciences Ravensburg-Weingarten.

SWI hold MoU's with many German companies working on water and waste water as well as with German Universities for Institutional strengthening, joint research and for faculty and student exchange. SCMS Water Institute accomplishes its mission through research and development, technology incubation and application, education and training, demand driven consultancy and networking. Since its inception Water Institute have been working closely with local self-governments in Kerala to address their water related challenges.

SWI acts as a Centre of Excellence in water and provides enormous opportunities for the students of SSET to get involved in service learning, where the technological talents of students get upgraded by addressing the real time problems faced by the society. This helps to fill the common lacuna which used to appear in engineering education. It is an excellent platform for technological students to understand the true field level challenges while implementing engineering principles and tackling them skilfully, as SWI provide opportunities for applying academics they study in the classroom to the field. Further, SWI facilitates the students to confront and resolve unforeseen difficulties while implementing projects which make them more suited for industry and thus in turn more successful in their career. Engagement of engineering students in solving the society related problems help them to be more responsible technological citizens of the nation.

SWI focuses on the aspects related to urban water security & management through multidisciplinary efforts. SWI offered expertise on the areas like water quality monitoring & assessment; environmental modelling; water auditing; remote sensing & geographic information systems; policy development; eco restoration & watershed management; design of water & waste water treatment units; rainwater harvesting; water distribution network analysis; storm water management.

SWI has emerged as a technical support provider for local self-governments in Kerala. It provides continued support to Kochi Municipal Corporation, Thrissur Municipal Corporation, Guruvayur Municipality, Meloor Grama Panchayath, Koratty Grama Panchayath, Kochi Metro Rail Ltd (KMRL), Cochin International Airport Ltd (CIAL) and various academic institutions in Kerala to address their environmental challenges. Students from various department of SCMS School of Engineering & Technology choose to voluntarily work with SWI to get exposure on real life projects. A state of the science environmental engineering laboratory at SSET is currently facilitating the research and consultancy works of SWI.